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NOTES UPON THE ORCHIDS OF CENTRAL NEW YORK

By Homer D. House

Central New York, and especially Onondaga County, has been frequently commented upon for its many species of ferns. A comparison of the orchid flora of the same region with that given in various local floras of the state, makes evident the fact that central New York has not only a rich fern flora but possesses also a large and varied orchid flora. In individuals the orchids are not so abundant as the ferns, but the number of species reported from this region is equal to, or larger than, that of any other section of New York. Paine, in the Flora of Oneida County, 1864, recorded forty-one species for all of New York west of Albany. Clute records twenty-nine species for the Susquehanna region; Dudley, thirty-five species in the Cayuga Lake region. Beckwith and Macauley cite forty-one species from western New York. From these figures it is seen that the orchids appear to be more abundant as regards species in the northern and western parts of the state. For the purposes of this article, the region known as central New York may be limited to that part of the state north of the Susquehanna divide in the counties of Onondaga, Madison and Oneida, also including portions of Oswego and Herkimer counties. This area would have Little Falls on the extreme east and have its western limits a few miles west of Syracuse.

The names included herein are in most cases based upon accessible herbarium specimens. Of such specimens, most of those in the herbarium of Columbia University were collected by Pro-

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fessor Underwood and Rev. W. M. Beauchamp. A lesser number is represented in the herbaria of Syracuse University and of the New York Botanical Garden. There are recorded for this region as defined above, forty-five species and two varieties, one of the latter being new.

Cypripedium L.

C. arietinum R. Br. Very rare. Clay swamp, Onondaga Co., *Mrs. M. O. Rust*, 1883. Reported by Paine from southern Herkimer County; and near Oneida Lake according to Asa Gray.

C. acaule Ait. Common. Most abundant in the sandy pine woods of the lower elevations, and especially about Oneida Lake and in Oneida County.

C. reginae Walt. Common in sphagnum bogs and in swamps, in both the hilly and lowland regions.

C. candidum Willd. Rare. In a sphagnum swamp near Syracuse, and some years abundant there. Specimens from there are in several herbaria. Mr. Paine remarks that it is to be looked for in places where its companion plants, *Parnassia Caroliniana* and *Valeriana sylvatica*, grow. Paine did not know of this station but his observations upon its companion plants are well borne out here, the two mentioned being very abundant, as is also *Dasiphora fruticosa*.

C. hirsutum Mill. Rare. Jamesville, Onondaga Co.; Munnsville, Madison Co.

C. parviflorum Salisb. Common. Syracuse, Onondaga Co., *Underwood*, 1890.

Galeorchis Rydb.

G. spectabilis (L.) Rydb. Not rare. Jamesville, Onondaga Co., *Underwood;* Kirkville, Onondaga Co., *Underwood;* Oneida, Madison Co.

Orchis L.

O. rotundifolia Pursh. Very rare. Reported by Paine from Herkimer Co. There are specimens in the herbarium of Columbia University from near Utica, Oneida Co., collected by E. Hunt.

PERULARIA Lindl.

P. flava (L.) Rydb. Very rare. Specimen in the Columbia herbarium collected by Asa Gray in 1834 in Oneida County.

COELOGLOSSUM Hartman

C. bracteatum (Willd.) Parl. Found by Asa Gray, according to Paine, at Fairfield, Herkimer Co.; Sangerfield, Oneida Co.; and Brookfield, Madison Co.

GYMNADENIOPSIS Rydb.

G. clavellata (Michx.) Rydb. Common.

LIMNORCHIS Rydb.

L. hyperborea (L.) Rydb. Rare. Jamesville, Onondaga Co., *Underwood*, 1891. Nearly all the so-called *hyperborea* of this region belongs with the next species. The real *L. hyperborea* is sub-arctic and its occurrence in this region is rare. All of the specimens collected by Prof. Underwood and cited by Dr. Rydberg under *Limnorchis hyperborea* (Bull. Torrey Club, 28 : 620. 1901), with the exception of the one cited above, belong to the next.

L. Huronensis (Nutt.) Rydb. Common. In part, the *Habenaria hyperborea* of Gray's Manual.

L. dilatata (Pursh) Rydb. Common.

L. dilatata linearifolia Rydb. Rare. Bridgewater, Oneida Co., the type collected by Asa Gray.

LYSIAS Salisb.

L. orbiculata (Pursh) Rydb. Rare. Reported from southern Herkimer Co. by Paine, also from Oneida Co. Fiddler's Green, Pecksport, Madison Co., *Underwood*.

L. Hookeriana (A. Gray) Rydb. Rare. Kirkville, Onondaga Co., *Underwood;* Baldwinsville, Onondaga Co., *Beauchamp*. Reported by Paine from Oneida and Herkimer counties.

LYSIELLA Rydb.

L. obtusata (Pursh) Rydb. Very rare. Reported by Paine from Herkimer Co.

BLEPHARIGLOTTIS Raf.

B. ciliaris (L.) Rydb. Not common. Baldwinsville, Onondaga Co., *Beauchamp.* Paine does not report this plant from central New York, the nearest station he gives being Schenectady on the east and Seneca Co. on the west. I have found it in woods on the pine plains east of Sylvan, Oneida Co.

B. blephariglottis (Willd.) Rydb. Scarce. Reported by Paine from Oneida and Herkimer counties.

B. lacera (Michx.) Rydb. Common. Usually growing in wet meadows or damp shady places.

B. leucophaea (Nutt.) Rydb. Very rare. "Lily marsh," Oswego Co., *J. H. Wibbe*, 1876.

B. psycodes (L.) Rydb. Common.

POGONIA Juss.

P. ophioglossoides (L.) Ker. Scarce. Kirkville and Baldwinsville, Onondaga Co., *Beauchamp.*

ISOTRIA Raf.

I. verticillata (Willd.) Raf. Rare. Baldwinsville, Onondaga Co., *Beauchamp*, 1887; *Brower*, 1887 and 1889; *Underwood*, 1890. "Lily marsh," Oswego Co., *J. H. Wibbe*, 1876. Reported by Paine from Oneida County.

TRIPHORA Nutt.

T. trianthophora (Sw.) Rydb. Rare. Clay swamp near Syracuse, Onondaga Co., *Underwood*, 1888; *Mrs. M. O. Rust*, 1883. Reported by Paine from Madison and Oneida counties.

ARETHUSA L.

A. bulbosa L. Very rare. Syracuse, Onondaga Co., *Underwood*, *Brower.* Reported by Paine from near Rome, Oneida County; also in Herkimer County.

LIMODORUM L.

L. tuberosum L. Common in all sphagnum bogs.

EPIPACTIS R. Br.

E. viridiflora (Hoffm.) Reichb. Rare. Otisco Lake, Onondaga Co., *S. N. Cowles*, 1889. Near Syracuse, *Mrs. M. O. Rust*,

Underwood. "First discovered in central New York by Mrs. M. P. Church, of the Syracuse Botanical Club, on August 6, 1878, on a hill under beeches, elms, maples and a few pines." (Bull. Torrey Club, 6: 329. 1879.)

GYROSTACHYS Pers.

G. stricta Rydb. Common. Most of the so-called *G. Romanzoffiana* reported from this region probably belongs here, the true *G. Romanzoffiana* being Alaskan.

G. plantaginea (Raf.) Britton. Common.

G. cernua (L.) Kuntze. Common.

G. praecox (Walt.) Kuntze. Scarce. Oneida, Madison Co., *House.* Specimens collected in 1902, in the herbarium of the New York Botanical Garden, were identified by Dr. Rydberg.

G. gracilis (Bigel.)Kuntze. Rare. Sylvan Beach, Oneida Co., *Underwood, House, Paine.* Reported by Paine from Little Falls, Herkimer County.

LISTERA R. Br.

L. cordata (L.) R. Br. Syracuse, Onondaga Co., *Underwood.* Reported by Paine from Oneida and Herkimer counties.

L. australis Lindl. Rare. Baldwinsville, Onondaga Co., *Underwood, Beauchamp.* "Lily marsh," Oswego Co., *J. H. Wibbe.*

PERAMIUM Salisb.

P. repens (L.) Salisb. Scarce. Reported by Paine from Deerfield and Point-of-Rock Lake, Oneida County.

P. pubescens (Willd.) MacM. Scarce. Silver Beach, Oneida Co., *House.*

ACHROANTHES Raf.

A. monophylla (L.) Greene. Rare. Bridgewater, Oneida Co., collected by Asa Gray in 1834 (in the Columbia herbarium). Reported by Paine from the vicinity of Utica; also in Herkimer County.

LEPTORCHIS Thouars

L. liliifolia (L.) Kuntze. Scarce. Oneida, Madison Co., *House.* Reported by Paine from Verona and Clark's Mills, Oneida County.

L. Loeselii (L.) MacM. Common. Oneida, Madison Co., *Maxon, House.* Kirkville, Onondaga Co., *Underwood.* Reported by Paine from Oneida Lake and from Herkimer County.

CALYPSO Salisb.

C. bulbosa (L.) Oakes. Mud Lake, Herkimer Co., *E. Hunt.*

APLECTRUM Nutt.

A. spicatum (Walt.) B.S.P. Rare. Jamesville, Onondaga Co., *Underwood.* Reported from several places in Oneida County by Paine.

Aplectrum spicatum pallidum var. nov. Similar to the type, but the flowers lemon-yellow or greenish-yellow, without the usual purplish spots. Type in the herbarium of Columbia University, collected by Professor Underwood at Jamesville, Onondaga County, 1890.

CORALLORHIZA R. Br.

C. Corallorhiza (L.) Karst. Common. Baldwinsville, *Beauchamp;* and Syracuse, Onondaga Co., *Underwood.* Reported from Oneida and Herkimer counties by Paine.

C. odontorhiza (Willd.) Nutt. Not rare. Syracuse, Onondaga Co., *Underwood.* Reported from Oneida County by Paine.

C. multiflora Nutt. Common. Oneida, Madison Co., *House.* Pompey and Syracuse, Onondaga Co., *Underwood.*

DEPARTMENT OF BOTANY, COLUMBIA UNIVERSITY,
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VAGARIES OF HEPATICA*

BY F. A. ROSS

(WITH FIGURES 1–45.)

No better inducement to companionship with plants could be desired than the discovery of a group of plants which seem to be at play. The mutation theory of de Vries gives new prom-

* Abstract of a paper read at the eighth winter meeting of the Vermont Botanical Club, January 17, 1903.